

65-81803W
MOS 12 99

FORM PTO-1595
1-31-92

08-23-1999



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

TEET

101124296

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): **Cecilia Y. Cheng, Robert R. Hayes, David A. Langsam, Andrew L. Strodbeck**

Additional Name(s) of conveying party(ies) attached?
yes no

2. Name and address of receiving party(ies):
Name: HUGHES ELECTRONICS CORPORATION
Internal Address: Bldg. 001, M/S A109
P.O. Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956

U.S. PTO
08/23/99
09/37/3349
08/12/99

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: July 23, 1999, July 27, 1999,
July 28, 1999

Street Address: Bldg. 001, M.S. A109
200 N. Sepulveda Blvd.
El Segundo, California 90245
Additional name(s) & address(es) attached? yes no

4. Application number(s) or patent number(s): **091373349** July 23, 1999, July 27, 1999,
If this document is being filed together with a new application, the execution date of the application is: July 28, 1999
A. Patent Application No.(s): B. Patent No.(s):
Additional numbers attached? yes no

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Patent Records Administration
Address: Hughes Electronics Corporation
Bldg. 001, M/S A109
P.O. Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956

6. Total number of applications and patents involved: [1]
7. Total fee (37 CFR 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
50-0383
(Attached duplicate copy of this page if paying by deposit account)

08/23/1999 DCOATES 00000019 500383 09373349
01 FC-581 40.00 CH

DO NOT USE THIS SPACE

9. Statement and signature
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

GEORGANN S. GRUNEBACH
Registration No. 33,179

Signature
August 12, 1999
Date
Total number of pages including cover sheet: 5

ASSIGNMENTPage 1 of 2
PD-970528

Customer No. 020991

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a(an) **Alignment System And Method For Optical Satellite Communication** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on _____ as Serial No. _____; and

WHEREAS, **HUGHES ELECTRONICS CORPORATION**, (hereinafter referred to as **HUGHES**), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to HUGHES, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said HUGHES, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to HUGHES, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by HUGHES, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of HUGHES, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in HUGHES, its successors, assigns or other legal representatives.

Customer No. 020991

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR CECILIA Y. CHENG	INVENTOR'S SIGNATURE <i>Cecilia Y. Cheng</i>	DATE July 23, 1999
RESIDENCE (CITY AND STATE) 610 THE VILLAGE, #216, REDONDO BEACH, CA 90277		INVENTION AGREEMENT DATE JANUARY 31, 1994

FULL NAME OF SOLE OR JOINT INVENTOR ROBERT R. HAYES	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 26052 MULHOLLAND HWY., CALABASAS, CA 91302		INVENTION AGREEMENT DATE NOVEMBER 14, 1977

FULL NAME OF SOLE OR JOINT INVENTOR DAVID A. LANGSAM	INVENTOR'S SIGNATURE <i>David A. Langsam</i>	DATE 7/27/99
RESIDENCE (CITY AND STATE) 6712 W. 86 th PLACE #2, LOS ANGELES, CA 90045		INVENTION AGREEMENT DATE JUNE 27, 1994

FULL NAME OF SOLE OR JOINT INVENTOR ANDREW L. STRODTBECK	INVENTOR'S SIGNATURE <i>Andrew L. Strodtbeck</i>	DATE 23 July '99
RESIDENCE (CITY AND STATE) 123 E. OAK AVE. #207, EL SEGUNDO, CA 90245		INVENTION AGREEMENT DATE JULY 10, 1979

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

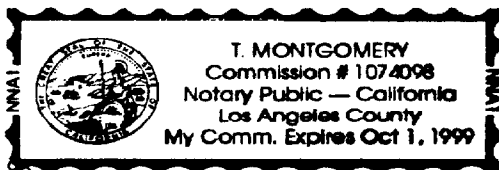
STATE OF California)
COUNTY OF Los Angeles)

SS:

On July 23, 1999 before me, T. MONTGOMERY,
a Notary Public in and for said State, personally appeared
ANDREW L. STRODTBECK*****

personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public *T. Montgomery*

Customer No. 020991

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR CECILIA Y. CHENG	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 610 THE VILLAGE, #216, REDONDO BEACH, CA 90277		INVENTION AGREEMENT DATE JANUARY 31, 1994

FULL NAME OF SOLE OR JOINT INVENTOR ROBERT R. HAYES	INVENTOR'S SIGNATURE <i>Robert R. Hayes</i>	DATE 7/28/99
RESIDENCE (CITY AND STATE) 26052 MULHOLLAND HWY., CALABASAS, CA 91302		INVENTION AGREEMENT DATE NOVEMBER 14, 1977

FULL NAME OF SOLE OR JOINT INVENTOR DAVID A. LANGSAM	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 6712 W. 86 th PLACE #2, LOS ANGELES, CA 90045		INVENTION AGREEMENT DATE JUNE 27, 1994

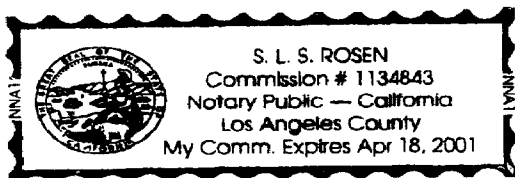
FULL NAME OF SOLE OR JOINT INVENTOR ANDREW L. STRODTBECK	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 123 E. OAK AVE. #207, EL SEGUNDO, CA 90245		INVENTION AGREEMENT DATE JULY 10, 1979

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

STATE OF Calif.)
COUNTY OF LOS ANGELES) SS:
On 7-28-99 before me, S.L.S. ROSEN, Notary Public
a Notary Public in and for said State, personally appeared
Robert R. Hayes

personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/~~they~~ executed the same in his/~~her~~/~~their~~ authorized capacity(ies), and that by his/~~her~~/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public SLS Rosen

13650 CO JAN 98

ASSIGNMENT

ADDENDUM
PD-970528

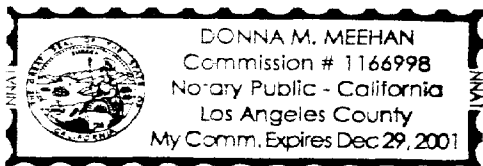
STATE OF California)
)
COUNTY OF Los Angeles)

SS:

On July 23, 1999, before me, Donna M. Meehan,
a Notary Public in and for said State, personally appeared Cecilia Y. Cheng

~~is~~ personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public Donna M. Meehan

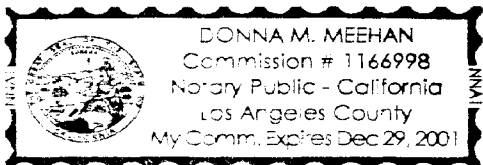
STATE OF California)
)
COUNTY OF Los Angeles)

SS:

On July 27, 1999, before me, Donna M. Meehan,
a Notary Public in and for said State, personally appeared David A. Langsam

~~is~~ personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public Donna M. Meehan